

AUG 10 2006

Application No. 10/715653  
Amendment dated  
After Final Office Action of May 31, 2006

Docket No.: 0111453.00122US3

**AMENDMENTS TO THE CLAIMS**

This listing of the claims will replace all prior versions, and listings, of claims in the application:

1-13. (canceled)

14. (original) An apparatus for producing a compact microarray, comprising:  
a printhead having a plurality of pins movably mounted therein, said pins being arranged in subsets of two or more pins; and  
a plurality of pin lifting mechanisms, each associated with a different one of said subsets for lifting the pins of the subset together relative to the printhead.

15. (original) The apparatus of Claim 14 wherein said printhead comprises a member having a plurality of through holes extending therethrough, and wherein each pin is slidably mounted in one of said through holes.

16. (original) The apparatus of Claim 14 wherein said pin lifting mechanisms each include an electromagnet.

17. (original) The apparatus of Claim 14 wherein said pin lifting mechanisms each include a pneumatic actuator.

18. (original) The apparatus of Claim 14 wherein said pin lifting mechanisms each include a support for supporting pins and an actuator for lifting said support.

19. (original) The apparatus of Claim 14 wherein said pin lifting mechanisms each raise pins using suction.

20. (original) The apparatus of Claim 14 wherein a subset comprises a row of pins.

21. (original) The apparatus of Claim 14 wherein a subset comprises a generally rectangular array of pins.